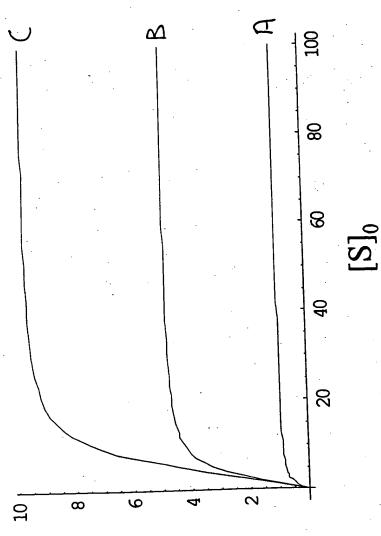


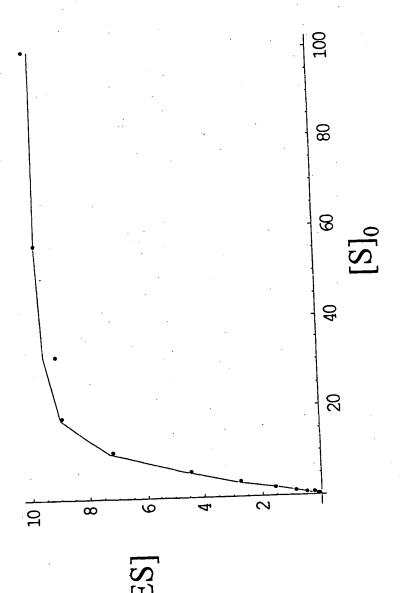
FIGURE 1

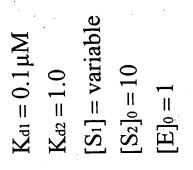


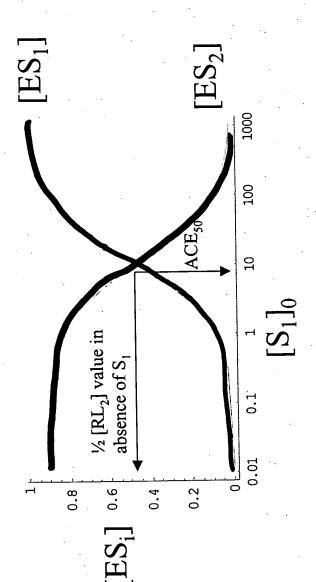


Actual values: $[E]_0 = 10.0 \text{ uM}$ $K_d = 1.0 \text{ uM}$

 $[E]_0 = 10.0 \text{ uM}$ $K_d = 1.1 \text{ uM}$ Best fit:









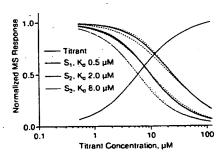
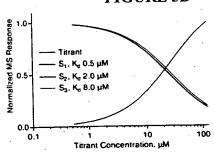


FIGURE 5B

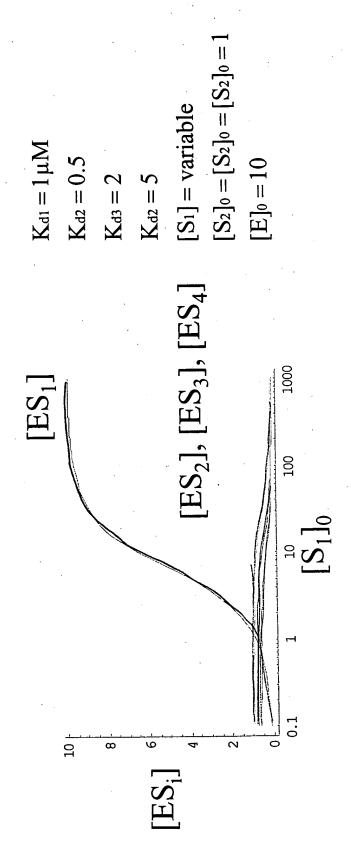


```
1 / (-4 ecs50' - 5 ecs50 a0 - 2 e0' - 2 ecs50 bdl - 4 e0 bdl - 7 bdl' - 4 ecs50 s20 - 2 e0 s20 - 5 e ad + 220' / (4 (2 ecs50 - 60 - 2 bdl)) ) - 3 (2 ecs50 - 60 - 2 bdl)
                           -(-4 ace30 - 2 ace30 e0 - 2 e0 - 2 ace30 pd1 - 4 =0 pd1 - 5 pd1 + 4 ace30 =20 - 2 e0 =20 - 6 pd1 =20) / (5 ace30 - e0 - 5 pd1) + (5 ace30 - e0 - 5 pd1) /
                                                 (2 |-4 excs00' - 3 orcs0 e0 - 3 e0' - 2 ercs0 Hdl - 4 e0 hdl - 3 Hdl' - 4 ercs0 s20 - 2 e0 s20 - 6 hdl s20)

(-4 excs00' +0 -4 excs0 e0' - 3 e0' +0 ercs0 e0 hdl - 4 e0 hdl - 10 e0 hdl' -0 ercs0 e0 b 20 - 2 e0 hdl s00 - 4 end s20 - 4 ercs0 s20' - 2 e0 s20' - 12 hdl s20') -

(Exbal (excs0 e0' - 4 e0' 5 e0) - ercs0 e0 e0 = 7 e0' 9 e0 - 7 e0 hdl s20 - 2 escbl s20' - 2 e0 e0 e0 e0 e0 e0' - 2 e0' 20' - 2 e0 e0 e0 e0' - 4 e0' 20') -
                               (ascalo - 0 - 2 accide at - 2 color 
                                                                  1 (2 cce30 - e0 - 2 x 61) (2 (-4 acc 30' e0 - 6 acc 30 e0' - 2 e0' - 6 acc 30 e0 x 61 - 4 e0' x 61 - 10 e0 x 61' - 6 acc 30' 920 - 14 acc 30 e0 220 - 5 e0' 920 - 2 e0 x 61 - 20 - 20 x 61 - 20 x 61
                                                                                              1 (2 ccs 20 - e0 - 2 hai) hai (ccs 20 e0' - 2 e0' - 2 ccs 20 e0' - 2 e0' - 2 ccs 20 e0' - 2 e0' - 2 ccs 20 e10 - 2 e0' - 2 e0 e0 e0' - 2 e0' -
```

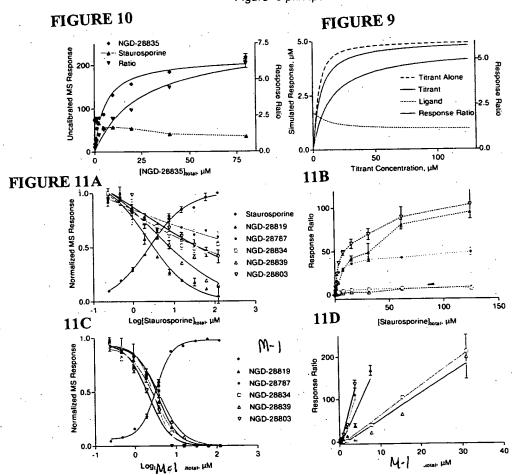


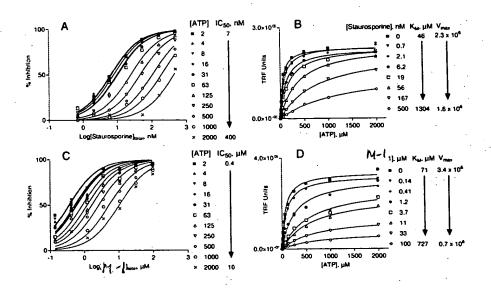


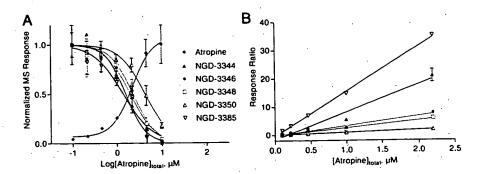
Page 8 of 28

FIGURE 8

Figure-5 print.psd





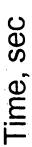


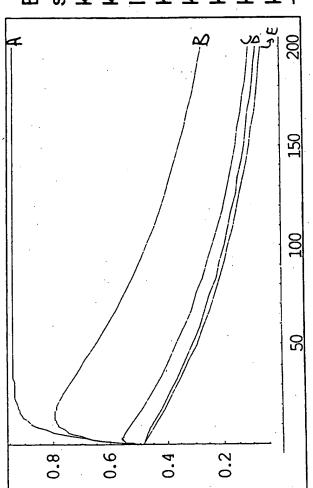
$$E_0 = 5 \mu M$$
 (before dilution)
 $S_0 = 1 \mu M$
 $kS_1 = 0.1 \mu M^{-1} sec^{-1}$
 $kS_2 = 0.01 sec^{-1}$
 $I_0 = 100 \mu M$

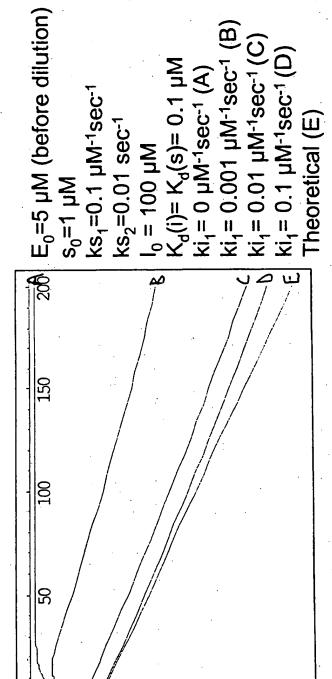
$$K_d(i) = K_d(s) = 0.1 \, \mu M$$

 $Ki_1 = 0 \, \mu M^{-1} sec^{-1}(A)$
 $Ki_1 = 0.001 \, \mu M^{-1} sec^{-1}(B)$
 $Ki_1 = 0.01 \, \mu M^{-1} sec^{-1}(C)$

$$ki_1 = 0.1 \, \mu M^{-1} sec^{-1} \, (D)$$







7

-2.5

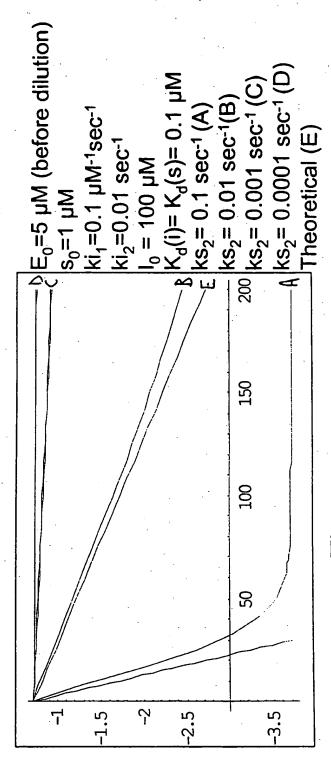
ᅱ

-1.5

Ln[E·S]

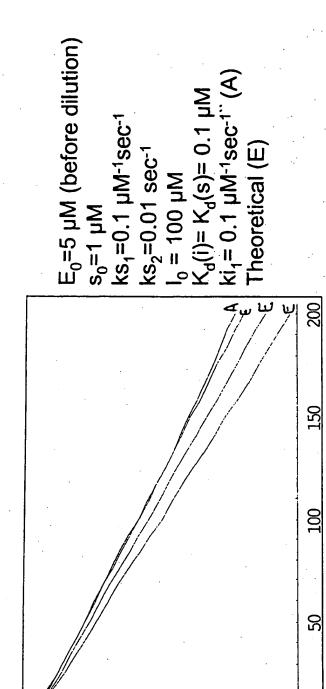
0.5

Time, sec



Time, sec

Ln[E·S]



Time, sec

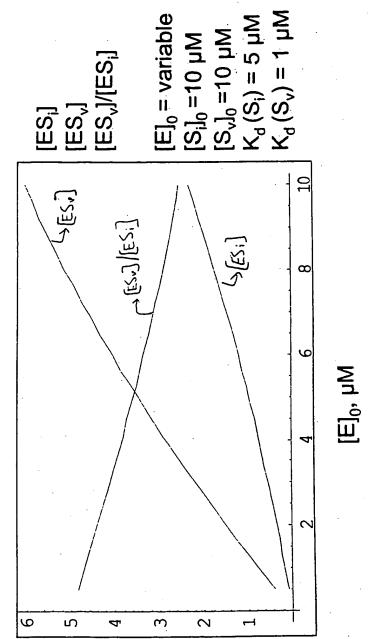
Ln[E·S]

-1.5

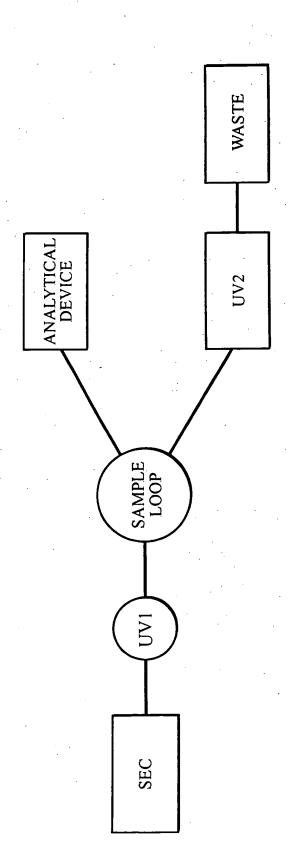
7

-2.5

겁



[ES¹], [ES₂]/ [ES₁]



IGURE 19

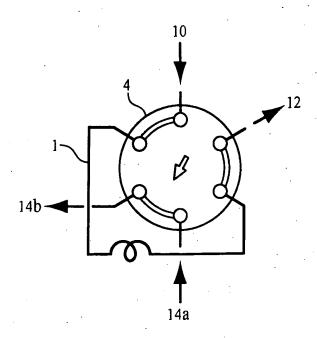


FIGURE 20A

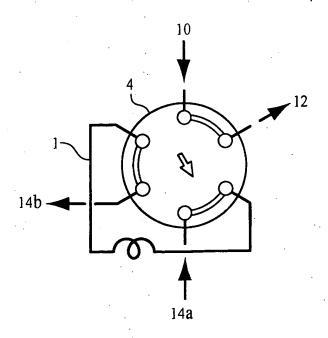
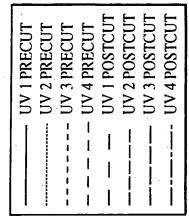


FIGURE 20B



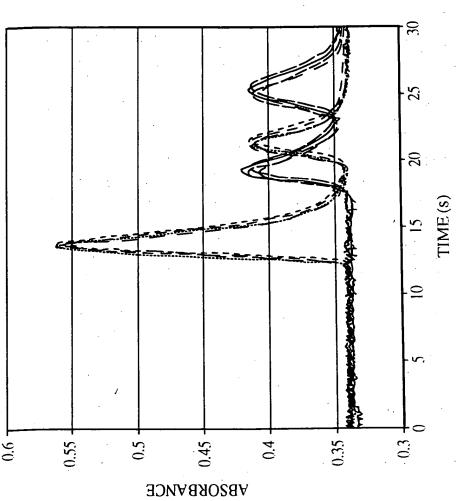


FIGURE 21

22 - 23

Matter No.: 10845-045001 Applicant(s): Allen D. Annis, et al. LIGAND ANALYSIS

-0.05

0.3 0.25 0.2 0.15 0.05 0.05

FIGURE 22A

TIME (s)

19 20 21

18

17

15

16

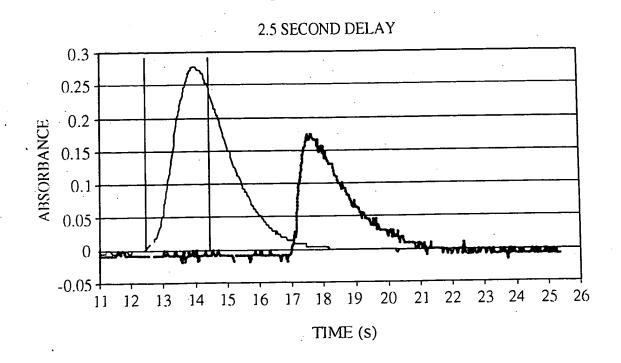


FIGURE 22B

Matter No.: 10845-045001 Applicant(s): Allen D. Annis, et al.

LIGAND ANALYSIS

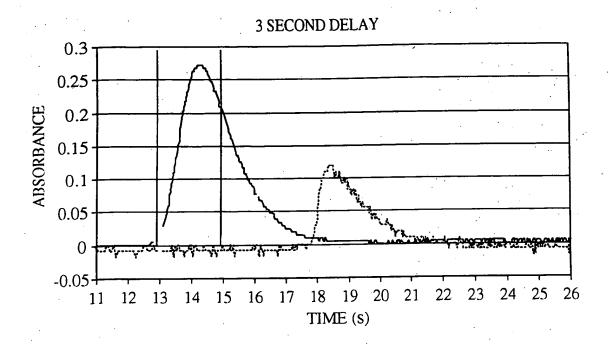


FIGURE 22C

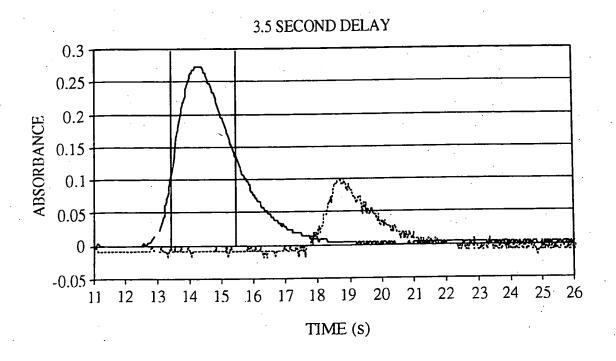


FIGURE 22D

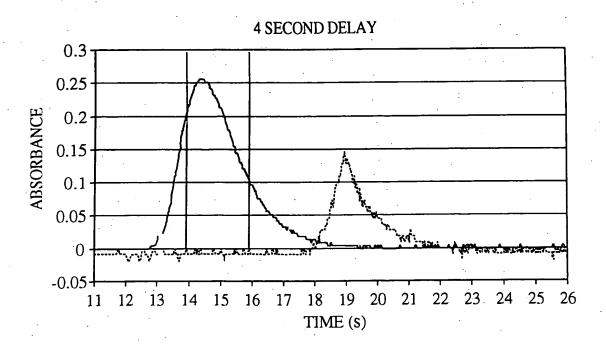


FIGURE 22E

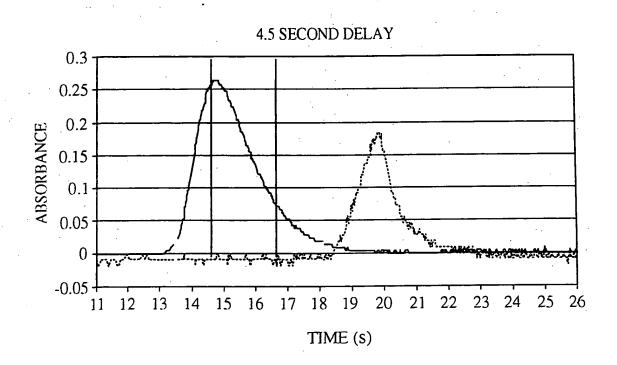
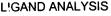


FIGURE 22F



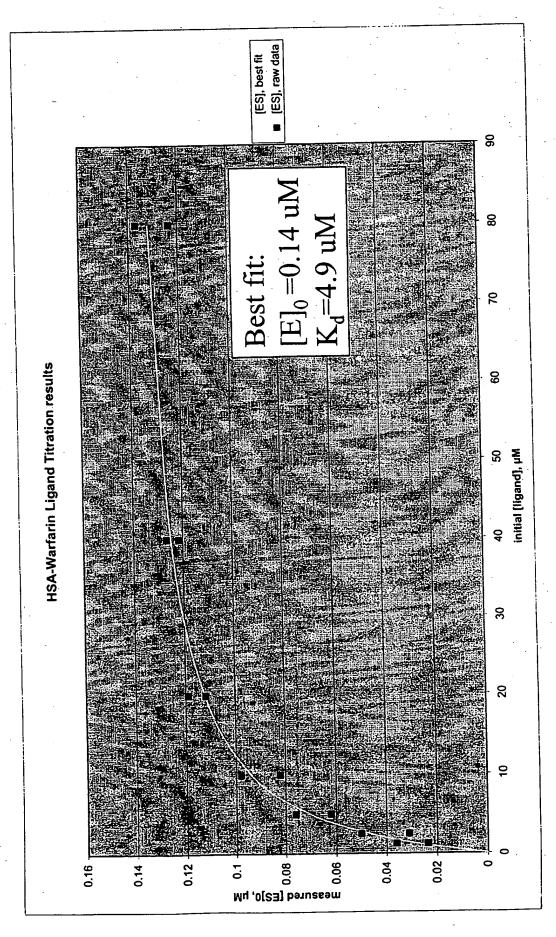
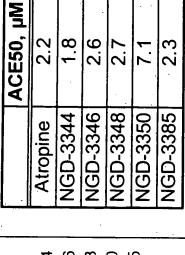


FIGURE 23

URE 24



0.0

Kd, pM

ACESO, MM

0.75 0.20 0.19 0.03 0.30

2.6

NGD-3346 NGD-3348

NGD-3344

2.3

NGD-3385

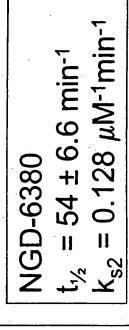
NGD-3350

Comparison of NGD-3344 (weak) and NGD-3350 (strong) ligands shown

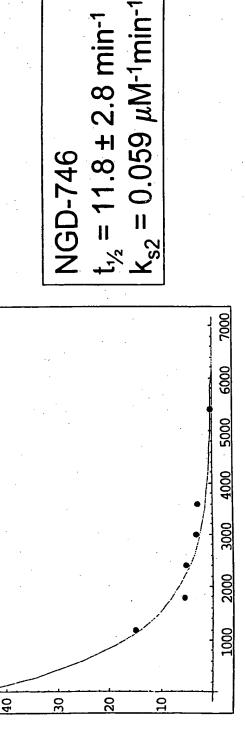
K_d of ligands in mixture calculated from ACE₅₀ given K_d of inhibitor (0.010 μ M) & protein concentration 2.0 μ M

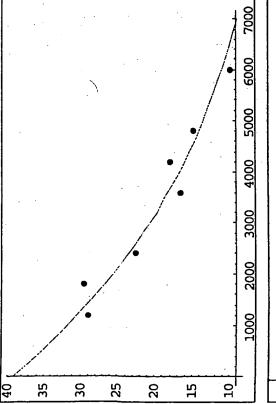
	· -		
		· .	ر د خ
			0-
50		-4	0.5
NGD-3350		-	.5 0.0 0.5 Log[Atropine]
Ž		+	-0.5 Log
			0.1-
	1507	-001	21.
		S Response	

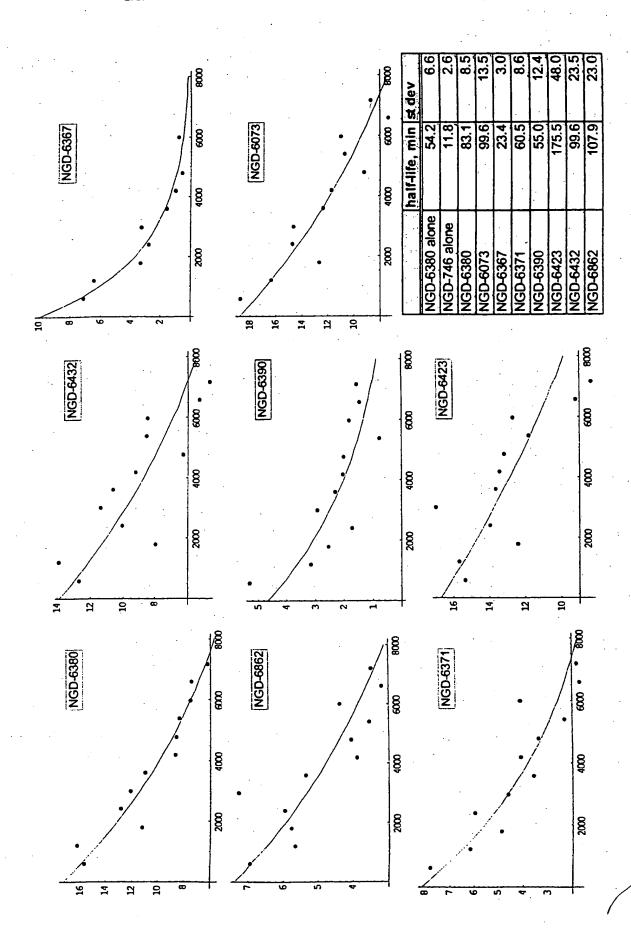
		•.		·
				1.5
			,	0
44)		0.5 ine]
NGD-3344				0.5 0.0 0.5 Log[Atropine]
ž	7	<u> </u>		-0.5 Log
		.		-1.0
	30	-01		-10
		Kesbou	SW	,











	ACESO, PM	Kd; nM
NGD-6380	3.27	27
NGD-6862	p/u	
NGD-6371	3.03	30
NGD-6432	1.93	53
NGD-6390	3.04	29
NGD-6423	2.69	34
NGD-6367	2.44	39
NGD-6073	1.93	52
NGD-746	0.58	200

